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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,446	12/05/2003	Scott A. Burton	59427US002	9352
32692	7590	01/29/2008	EXAMINER	
3M INNOVATIVE PROPERTIES COMPANY PO BOX 33427 ST. PAUL, MN 55133-3427			GHALI, ISIS A D	
			ART UNIT	PAPER NUMBER
			1611	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No.	Applicant(s)
	10/728,446	BURTON ET AL.
	Examiner	Art Unit
	Isis A. Ghali	1611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 22 October 2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-44 is/are pending in the application.
 - 4a) Of the above claim(s) 40-44 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-39 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/ are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>See Continuation Sheet</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: _____ |

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16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isis A. Ghali whose telephone number is (571) 272-0595. The examiner can normally be reached on Monday-Thursday, 6:30 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Isis A Ghali
Primary Examiner
Art Unit 1611

IG

Isis Ghali

ISIS GHALI
PRIMARY EXAMINER

Continuation of Attachment(s) 3).

Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :
08/16/2007; 10/22/2007; 11/05/2007; 11/08/2007; 11/13/2007

DETAILED ACTION

The receipt is acknowledged of applicants IDS filed 08/16/2007; IDS filed 10/22/2007; IDS filed 11/05/2007; IDS filed 11/08/2007; IDS filed 11/13/2007; and amendment filed 10/22/2007.

Claims 1-44 are pending.

Restriction between Inventions I, II and III have been withdrawn.

Claims 40-44 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Group IV, there being no allowable generic or linking claim. Election is considered **without** traverse in the reply filed on 05/08/2007.

Claims 1-39 are included in the prosecution.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140

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F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-44 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-51 of copending Application No. 10/917,002. Although the conflicting claims are not identical, they are not patentably distinct from each other because the subject matter claimed in the instant application is fully disclosed in the referenced copending applications and would be covered by any patent granted on the copending applications since the referenced copending applications and the instant application are claiming common subject matter as follows: method of coating silver compound on a substrate comprising combining silver-containing compound with ammonium-containing compound in a solution, coating the solution on a substrate and drying the substrate. The present claims anticipate the claims of the copending application.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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3. The examiner acknowledged applicants' intention to provide an appropriate response to overcome provisional obviousness-type double patenting rejection of claims 1-44 over claims 1-51 of U.S. Patent Application No. 10/917,002 upon an indication of otherwise allowable subject matter. However, "provisional" double patenting rejection should continue to be made by the examiner in each application as long as there are conflicting claims in more than one application unless that "provisional" double patenting rejection is the only rejection remaining in one of the applications.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 14 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. The claims are rendered indefinite by raising a question or doubt because it is subject of more than one interpretation, and one interpretation would render the claim unpatentable over the prior art. In the present instance, the claim recites the broad limitation "film", and also recites the narrower

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limitations "gauze, polyester fibers, hydrocolloid and foam", because all the elements listed in the claims are suitable for forming film.

Regarding claim 26, the expression "essentially free" does not set forth the metes and bounds of the claim. Recourse to the specification does not define the expression.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1, 2, 5, 9-14, 25 and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by GB 769,799 ('799).

GB '799 disclosed method for coating substrate of fabric or fibers with sparingly water soluble silver salt including dipping or wetting the substrate surface with solution comprising aqueous solution of silver salt including silver nitrate, and ammonia compound to solubilize the silver salt, followed by drying the wet substrate (page 1, lines 81-85; page 2, lines 1-5, 18-26, 30-36, 112-120; page 3, lines 112-115; the tale in page 6). The coating solution further comprises stabilizer that reads on antioxidant claimed by claims 12 and 13, and the stabilizer is added to the coating solution that is applied to the substrate, therefore, the limitations of claims 12 and 13 are met. Drying by heat will inherently remove volatile components of the coated solution and silver will remains. GB '799 disclosed that the solution can be coated on medical articles surgical

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masks and surgeons hats (page 5, lines 123-125). The pH of the coating solution comprising the same ingredients including ammonia will inherently have the same alkaline pH value. The coated substrate is lethal to bacteria and fungi falling on its surface and remains this way for long time (page 2, lines 3-5). GB '799 disclosed that dipping the substrate in the solution is carried out at temperature 60 °C 80 °C, however, temperature variation does not produce any significant change in the treated article, and even higher temperature caused color changes (page 6, lines 10-20).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 3, 4, 7, 8 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over GB '799 in view of WO 02/43743 ('743).

The teachings of GB '799 are discussed under 102 rejection as set forth in this office action.

Although GB '799 disclosed insignificant effect of temperature variation of the dipping solution on the treated article and the disadvantage of higher temperature, however GB '799 does not teach specifically temperature less than 40 °C as claimed by claims 3 and 4.

Further GB '799 disclosed ammonia added to the sparingly water soluble salt solution for solubilizing the solution, however, it does not explicitly teach ammonium salts claimed by claims 7 and 8.

Although GB '799 teaches coating medical articles with the disclosed solution, however, the reference does not explicitly teach coating wound dressing.

WO '743 teaches wound dressing made of polymer such as hydrocolloid or polymer fibers prepared by method comprising the steps of subjecting the polymer to aqueous solution comprising silver salts such as nitrate, and ammonium salt such as acetate or carbonate at ambient temperature, i.e. below 40 °C, and drying the material (page 3, lines 24-30; page 4, lines 1-15; page 5, lines 3, 10-15; page 7, lines 1-3, 12-15, claim 9). The produced material is stable (page 8, line 3). The ammonium salts facilitate the silver photostabilization (page 7, lines 4-7). The solution further comprises peroxide as stabilizing agent (page 7, lines 4-7).

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Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonia on the article followed by drying the article as disclosed by GB '799, and dry the article at ambient temperature as disclosed by WO '734 because WO '743 teaches range of temperature up to 100 °C, and preferred ambient temperature, and also because GB '799 taught that temperature variations does not have significant effect of the treated article and taught that high temperature is disadvantageous, with reasonable expectation of having method to successfully coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonia on the article followed by drying the article at ambient temperature with less coast and avoidance of deleterious heat effects.

It would have been also obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonia on the article followed by drying the article as disclosed by GB '799, and replace the ammonia compound with ammonium carbonate as disclosed by WO '743, motivated by the teaching of WO '743 that ammonium salts including ammonium carbonate facilitates photostabilization of silver, with reasonable expectation of having method to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonium carbonate on the article followed by drying the article wherein the coating over the article is photostable.

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Additionally, it would have been obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonia on the article followed by drying the article as disclosed by GB '799, and use such a coating to coat wound dressing motivated by the teaching of GB '799 that article coated with such a coating is lethal to bacteria and fungi falling on its surface and remains this way for long time, and also motivated by the teaching of WO '743 that wound dressing subjected to solution comprising silver salt and ammonium salts is photostable, with reasonable expectation of having method to coat a wound dressing with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonium carbonate on the article followed by drying the article wherein the coating over the dressing is lethal to the microorganisms that come in contact with the surface of the dressing and also photostable.

11. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over GB '799 in view of US 4,592,920 ('920).

The teachings of GB '799 are discussed under 102 rejection as set forth in this office action.

Although GB '799 disclosed sparingly water soluble silver salts, however, the reference does not explicitly teach silver oxide.

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US '920 teaches coating of medical devices with coat containing antimicrobial metal that is biocompatible with body including silver oxide (abstract; col.2, lines 1-3; col.3, lines 22-25, 32-33).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonia on the article followed by drying the article as disclosed by GB '799, and replace the water sparingly silver salt with silver oxide disclosed by US '920, motivated by the teaching of US '920 that silver oxide is biocompatible with body, with reasonable expectation of having method to coat a medical article with silver compound by coating an aqueous solution comprising silver oxide and ammonia compound on the article followed by drying the article wherein the coating is safe and biocompatible with the body.

12. Claims 15-24, 26 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of GB '799, WO '743, and U S '920.

The teachings of the references are previously discussed as set forth in this office action. GB 799 teaches the claimed method of coating silver compound on a substrate, however, GB '799 does not explicitly teach silver oxide and the specific ammonium containing compounds as claimed by claim 15. Silver oxide is taught by US '920, and specific ammonium containing compounds are taught by WO '743. The temperature claimed by claims 17 and 18 and the wound dressing claimed by claim 38 are all taught by WO '743.

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Therefore, it would have been also obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonia on the article followed by drying the article as disclosed by GB '799, and replace the ammonia compound with ammonium carbonate as disclosed by WO '743, motivated by the teaching of WO '743 that ammonium salts including ammonium carbonate facilitates photostabilization of silver, with reasonable expectation of having method to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonium carbonate on the article followed by drying the article wherein the coating over the article is photostable.

Further, it would have been obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonium carbonate on the article followed by drying the article as disclosed by GB '799 combined with WO '743, and replace the water sparingly silver salt with silver oxide disclosed by US '920, motivated by the teaching of US '920 that silver oxide is biocompatible with body, with reasonable expectation of having method to coat a medical article with silver compound by coating an aqueous solution comprising silver oxide and ammonia carbonate on the article followed by drying the article wherein the coating is safe and biocompatible with the body.

Furthermore, it would have been obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an

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aqueous solution comprising silver oxide and ammonium carbonate on the article followed by drying the article as disclosed by GB '799 combined with WO '743 and US '920, and dry the article at ambient temperature as disclosed by WO '734 because WO '743 taught range of temperature up to 100 °C, and preferred ambient temperature, and also because GB '799 taught that temperature variations does not have significant effect of the treated article and taught that high temperature is disadvantageous, with reasonable expectation of having method to successfully coat a medical article with silver compound by coating an aqueous solution comprising silver oxide and ammonium carbonate on the article followed by drying the article at ambient temperature with less coast and avoidance of deleterious heat effects.

Additionally, it would have been further obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising silver oxide and ammonium carbonate on the article followed by drying the article as disclosed by the combined teachings of GB '799, WO '743 and US '920, and use such a coating to coat wound dressing, motivated by the teaching of GB '799 that article coated with such a coating is lethal to bacteria and fungi falling on its surface and remains this way for long time, and also motivated by the teaching of WO '743 that wound dressing subjected to solution comprising silver salt and ammonium salts is photostable, with reasonable expectation of having method to coat a wound dressing with silver compound by coating an aqueous solution comprising sparingly silver oxide and ammonium carbonate on the article followed by drying the

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article wherein the coating over the dressing is lethal to the microorganisms that come in contact of the surface of the dressing and also photostable.

13. Claims 27, 28, and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over GB '799 combined with US '920.

The teachings of the references are previously discussed as set forth in this office action. GB 799 teaches the claimed method of coating silver compound on a substrate, however, GB '799 does not explicitly teach silver oxide as claimed by claim 27. Silver oxide is taught by US '920.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonium containing compound on the article followed by drying the article as disclosed by GB '799, and replace the water sparingly silver salt with silver oxide disclosed by US '920, motivated by the teaching of US '920 that silver oxide is biocompatible with body, with reasonable expectation of having method to coat a medical article with silver compound by coating an aqueous solution comprising silver oxide and ammonia compound on the article followed by drying the article wherein the coating is safe and biocompatible with the body.

14. Claims 29-32 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over GB '799 combined with US '920 and further in view of WO '743.

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The teachings of the references are previously discussed as set forth in this office action. GB 799 teaches the claimed method of coating silver compound on a substrate, however, GB '799 does not explicitly teach the specific ammonium containing compounds as claimed by claims 31 and 32. The temperature claimed by claims 29 and 30 and the wound dressing claimed by claim 38 are all taught by WO '743.

Therefore, it would have been also obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver oxide and ammonia on the article followed by drying the article as disclosed by the combination of GB '799 and US '920, and replace the ammonia compound with ammonium carbonate as disclosed by WO '743, motivated by the teaching of WO '743 that ammonium salts including ammonium carbonate facilitates photostabilization of silver, with reasonable expectation of having method to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver salt and ammonium carbonate on the article followed by drying the article wherein the coating over the article is photostable.

Additionally, it would have been further obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising sparingly water soluble silver oxide and ammonia carbonate on the article followed by drying the article as disclosed by the combined teachings of GB '799, US '920 and WO '743, and use such a coating to coat wound dressing, motivated by the teaching of GB '799 that article coated with such a coating is lethal to bacteria and fungi falling on its surface and remains this way for long time, and

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also motivated by the teaching of WO '743 that wound dressing subjected to solution comprising silver salt and ammonium salts is photostable, with reasonable expectation of having method to coat a wound dressing with silver compound by coating an aqueous solution comprising silver oxide and ammonium carbonate on the article followed by drying the article wherein the coating over the dressing is lethal to the microorganisms that come in contact of the surface of the dressing and also photostable.

Furthermore, it would have been obvious to one having ordinary skill in the art at the time of the invention to coat a medical article with silver compound by coating an aqueous solution comprising silver oxide and ammonium carbonate on the article followed by drying the article as disclosed by the combination of GB '799 with US '920 and WO '743, and dry the article at ambient temperature as disclosed by WO '734 because WO '743 taught range of temperature up to 100 °C, and preferred ambient temperature, and also because GB '799 taught that temperature variations does not have significant effect of the treated article and taught that high temperature is disadvantageous, with reasonable expectation of having method to successfully coat a medical article with silver compound by coating an aqueous solution comprising silver oxide and ammonium carbonate on the article followed by drying the article at ambient temperature with less coast and avoidance of deleterious heat effects.

Response to Arguments

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15. Applicant's arguments filed 10/22/2007 have been fully considered but they are not persuasive. The main gist of Applicants' argument over the anticipatory and obviousness rejections of the claims over GB '799 is that GB '799 teaches using two separate solutions one containing silver salt and the other containing ammonium salt, and does not teach single silver-containing solution. Further applicants argue that GB '799 teaches mechanical drying following exposure to each solution. Additionally, applicants argue that WO '743 and US '920 do not teach the single solution.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., single solution) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Regarding applicants' argument that the reference teaches mechanical drying, it is noticed that the expression "comprising" of the claims' language does not exclude mechanical drying.

Regarding the arguments against the secondary references, US '920 is relied upon for the solely teaching of silver oxide and WO '743 is relied upon for teaching ammonium carbonate salts as well as specific temperature, and suitability of silver compounds in wound dressing, and not for teaching single solution.